

Comparisons of Job Characteristics

Focus Occupation: Chemical Plant and System Operators (51-8091)

Associated Occupation: Petroleum Pump System Operators, Refinery Operators, and Gaugers (51-8093)

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 78

Focus Occupation: Chemical Plant and System Operators (51-8091)

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Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	13.1	15.1	>	Current knowledge level is likely sufficient
Public Safety and Security	6.9	9.2	10.5	>	Current knowledge level is likely sufficient
Chemistry	4.8	6.5	12.2	>>	Current knowledge level is likely more than sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 95

Focus Occupation: Chemical Plant and System Operators (51-8091)

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Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operation Monitoring	6.6	15.9	15.9	0	Current skill level may be sufficient
Monitoring	9.9	12.2	12.9	0	Current skill level may be sufficient
Operation and Control	5.4	11.6	13.6	>	Skill level is likely sufficient
Quality Control Analysis	5.9	11.0	11.5	0	Current skill level may be sufficient
Troubleshooting	4.5	8.2	6.7	<	A higher skill level may be required
Equipment Maintenance	3.5	7.9	7.1	<	A higher skill level may be required
Repairing	3.4	7.1	7.5	0	Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities

Similarity of Focus Occupation to Associated Occupation: 93

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Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Perceptual Speed	7.4	13.2	11.4	<	Some improvement in abilities may be required
Auditory Attention	5.9	11.8	11.1	0	Current ability level may be sufficient
Selective Attention	8.7	11.8	12.8	0	Current ability level may be sufficient
Flexibility of Closure	7.8	11.4	8.5	<<	Extensive improvement in abilities may be required
Reaction Time	4.8	11.0	10.1	0	Current ability level may be sufficient
Hearing Sensitivity	5.6	9.8	10.1	0	Current ability level may be sufficient
Speed of Closure	5.9	8.8	8.7	0	Current ability level may be sufficient
Gross Body Equilibrium	3.2	7.2	6.9	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Chemical Plant and System Operators (51-8091)

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Work Activities	Exclusivity of Activity
Adjust production equipment/machinery setup	25
Clean equipment or machinery	20
Collect samples for testing	58
Confer with engineering, technical or manufacturing personnel	25
Inspect machinery or equipment to determine adjustments or repairs needed	42
Maintain consistent production quality	50
Maintain or repair industrial or related equipment/machinery	39
Maintain production or work records	19
Measure, weigh, or count products or materials	17
Monitor production machinery/equipment operation to detect problems	27
Operate chemical processing equipment	77
Operate power driven pumps	66
Perform safety inspections in manufacturing or industrial setting	33
Read work order, instructions, formulas, or processing charts	9
Test materials or solutions	73
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

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Tools and Technologies

Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.